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**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)
23. (Cancelled)

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- 24. (Cancelled)
- 25. (Cancelled)
- 26. (Cancelled)
- 27. (Cancelled)
- 28. (Cancelled)
- 29. (Cancelled)
- 30. (Cancelled)
- 31. (Cancelled)
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Cancelled)
- 35. (Cancelled)
- 36. (Cancelled)
- 37. (Cancelled)
- 38. (Cancelled)
- 39. (Cancelled)
- 40. (Cancelled)
- 41. (Cancelled)
- 42. (Cancelled)
- 43. (Cancelled)
- 44. (Cancelled)
- 45. (Cancelled)

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46. (New) For use in a Radio Access Network of a telecommunications system, a method comprising deriving control parameters for controlling an in-and-out-of-synchronization detection algorithm for a radio link set from corresponding cell based parameters, the radio link set being a set of radio links which are combined in a softer handover operation performed at a base station of the Radio Access Network.

47. (New) A method according to claim 46, wherein the control parameters for controlling the in-and-out-of-synchronization detection algorithm for the radio link set are derived from the corresponding cell based parameters of the cells of the individual Radio Links of the radio link set.

48. (New) A method according to claim 47, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

49. (New) A method according to claim 47, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

50. (New) A method according to claim 47, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

51. (New) A method according to claim 47, wherein the control parameters are derived according to any of the methods in claims 48, 49, and 50 for each individual control parameter.

52. (New) A method according to claim 46, wherein the control parameters for controlling the in-and-out-of-synchronization detection algorithm for the radio link set are derived from the corresponding cell based parameters of all cells in the base station.

53. (New) A method according to claim 52, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

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54. (New) A method according to claim 52, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

55. (New) A method according to claim 52, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

56. (New) A method according to claim 52, wherein the control parameters are derived according to any of the methods in claims 53, 54, and 55 for each individual control parameter.

57. (New) A method according to claim 46, wherein the control parameters for controlling the in-and-out-of-synchronization detection algorithm for the radio link set are derived from the corresponding cell based parameters of any potential radio link set in the base station,, wherein the potential radio link set corresponds to any combination of one or more cells in a base station.

58. (New) A method according to claim 57, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

59. (New) A method according to claim 57, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

60. (New) A method according to claim 57, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

61. (New) A method according to claim 57, wherein the control parameters are derived according to any of the methods in claims 58, 59, and 60 for each individual control parameter.

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62. (New) A method according to claim 46, wherein the control parameters controlling the in-and-out-of-synchronization detection algorithm for the radio link set are controlled by parameters that are derived from the corresponding cell based parameters using any combination of the methods in claims 47, 52, and 57 for the individual control parameters.

63. (New) A method according to claim 62, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

64. (New) A method according to claim 62, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

65. (New) A method according to claim 62, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

66. (New) A method according to claim 62, wherein the control parameters are derived according to any of the following for each individual control parameter:  
by taking the largest value of the corresponding cell based parameters;  
by taking the lowest value of the corresponding cell based parameters; or  
by taking a weighed or non-weighed average value of the corresponding cell based parameters.

67. (New) A radio access network of a telecommunications system comprising:  
an in-and-out of synchronization detector which judges reception quality of a connection with a mobile user equipment unit;

a control parameter determination function which determines control parameters to be utilized by the in-and-out of synchronization detector, the control parameter determination function determining the control parameters for a radio link set from corresponding cell based parameters, the radio link set being a set of radio links which

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are combined in a softer handover operation performed at a base station of the Radio Access Network.

68. (New) An apparatus according to claim 67, wherein the control parameter determination function derives the control parameters for controlling the in-and-out-of-synchronization detector for the radio link set from the corresponding cell based parameters of the cells of the individual Radio Links of the radio link set.

69. (New) An apparatus according to claim 68, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

70. (New) An apparatus according to claim 68, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

71. (New) An apparatus according to claim 68, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

72. (New) An apparatus according to claim 68, wherein the control parameters are derived according to any of the methods in claims 69, 70, and 71 for each individual control parameter.

73. (New) An apparatus according to claim 67, wherein the control parameter determination function derives the control parameters for controlling the in-and-out-of-synchronization detection algorithm for the radio link set from the corresponding cell based parameters of all cells in the base station.

74. (New) An apparatus according to claim 73, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

75. (New) An apparatus according to claim 73, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

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76. (New) An apparatus according to claim 73, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

77. (New) An apparatus according to claim 73, wherein the control parameters are derived according to any of the methods in claims 74, 75, and 76 for each individual control parameter.

78. (New) An apparatus according to claim 67, wherein the control parameter determination function derives the control parameters for controlling the in-and-out-of-synchronization detection algorithm for the radio link set from the corresponding cell based parameters of any potential radio link set, wherein a potential radio link set corresponds to any combination of one or more cells in a base station.

79. (New) An apparatus according to claim 78, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

80. (New) An apparatus according to claim 78, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

81. (New) An apparatus according to claim 78, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

82. (New) An apparatus according to claim 78, wherein the control parameters are derived according to any of the methods in claims 79, 80, and 81 for each individual control parameter.

83. (New) An apparatus according to claim 67, wherein the control parameter determination function derives the control parameters controlling the in-and-out-of-

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synchronization detection algorithm for the radio link set from the corresponding cell based parameters using any combination of the methods in claims 68, 73, and 78 for the individual control parameters.

84. (New) An apparatus according to claim 83, wherein the control parameters are derived by taking the largest value of the corresponding cell based parameters.

85. (New) An apparatus according to claim 83, wherein the control parameters are derived by taking the lowest value of the corresponding cell based parameters.

86. (New) An apparatus according to claim 83, wherein the control parameters are derived by taking a weighed or non-weighed average value of the corresponding cell based parameters.

87. (New) An apparatus according to claim 83, wherein the control parameters are derived according to any of the following for each individual control parameter:  
by taking the largest value of the corresponding cell based parameters;  
by taking the lowest value of the corresponding cell based parameters; or  
by taking a weighed or non-weighed average value of the corresponding cell based parameters.

88. (New) An apparatus according to claim 67, wherein the in-and-out of synchronization detector is situated at a base station of the radio access network.

89. (New) An apparatus according to claim 67, wherein the control parameter determination function is situated at a radio network control (RNC) node of the radio access network.

90. (New) An apparatus according to claim 67, wherein the control parameter determination function is situated at a base station of the radio access network.